Pipeline Field and Control Center Operations

**L1 PIPELINE FIELD AND CONTROL CENTER OPERATIONS**

**LEVEL 1**

### Curriculum Notes
- 115 Hours
- Revised: 2017, Third Edition
- Downloadable instructor resources that include module tests, PowerPoints®, and performance profile sheets are available at www.nccer.org/irc.
- Available as print on demand
- To purchase individual covered task modules, please visit www.nccer.org/irc.

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**MODULES**
The modules listed below are included in the Trainee Guide. The following ISBNs are for ordering individual modules only.

- **Abnormal Operating Conditions - Control Center** (5 Hours)
  - (Module ID 64307-02) Introduces abnormal operating conditions that can occur on a pipeline or in a pipeline facility. Explains how to recognize and react to abnormal operating conditions from the control center and the necessary documentation and notifications that must be completed when responding to these conditions.

- **Field Quality Control** (15 Hours)
  - (Module ID 60107-02) Introduces field quality control procedures including activation of tank mixing devices, collection of product samples, product testing, pipeline switching, product blending operations, and injection of appropriate additives.

- **Liquid Pipeline Measurement and Quality Control**
  - (Module ID 64307-02) Explains pipeline operations systems, including control, communications, SCADA, and PLCs. Explains redundant systems and control system troubleshooting.

- **Purge Gas from a Pipeline** (5 Hours)
  - (Module ID CT55_0-17) Describes the process of purging gas from a pipeline system.

- **Purge Air from a Gas Pipeline** (5 Hours)
  - (Module ID CT55_0-17) Explains the process of purging air from a gas pipeline system.

- **Test Remotely Operated Shutdown Devices** (5 Hours)
  - (Module ID CT54_0-17) Demonstrates the testing of remotely operated shutdown devices.

- **Shutdown of a Liquid Pipeline (Field)** (5 Hours)
  - (Module ID CT63_2-17) Explains the procedure for shutting down a liquid pipeline field.

- **Monitor Pressures, Flows, Communications, and Line Integrity and Maintain Them Within Allowable Limits on a Liquid Pipeline System (Field)** (15 Hours)
  - (Module ID CT63_3-17) Explains how to monitor pressures, flows, communications, and line integrity and maintain them within allowable limits on a liquid pipeline system.

- **Locally Operate Valves on a Liquid Pipeline System**
  - (Module ID CT63_4-17) Demonstrates the local operation of valves on a liquid pipeline system.

- **Start-up of a Liquid Pipeline (Control Center)** (5 Hours)
  - (Module ID CT64_1-17) Explains the start-up procedure for a liquid pipeline control center.

- **Shutdown of a Liquid Pipeline (Control Center)** (5 Hours)
  - (Module ID CT64_2-17) Explains the procedure for shutting down a liquid pipeline control center.

- **Monitor Pressures, Flows, Communications, and Line Integrity and Maintain Them Within Allowable Limits on a Liquid Pipeline System (Control Center)** (5 Hours)
  - (Module ID CT64_3-17) Explains how to monitor pressures, flows, communications, and line integrity and maintain them within allowable limits on a liquid pipeline system.

- **Remotely Operate Valves on a Liquid Pipeline System** (5 Hours)
  - (Module ID CT64_4-17) Demonstrates the remote operation of valves on a liquid pipeline system.

**L2 PIPELINE OPERATIONS (CONTROL CENTER/GAS/LIQUID)**

**LEVEL 2**

### Curriculum Notes
- 110 Hours
- Revised: 2017, Third Edition
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**MODULES**
The modules listed below are included in the Trainee Guide. The following ISBNs are for ordering individual modules only.

- **Abnormal Operating Conditions - Field and Gas** (5 Hours)
  - (Module ID AOCFG-17) Provides an overview of the types of abnormal operating conditions (AOCs) that may occur on the pipeline or in company facilities. Appropriate responses to AOCs are covered with a focus on following company policy to protect lives and pipeline equipment. Also covered are the reports required by federal law.

- **Shut Down of a Liquid Pipeline** (Field) (5 Hours)
  - (Module ID CT63_2-17)

- **Monitor Pressures, Flows, Communications, and Line Integrity and Maintain Them Within Allowable Limits on a Liquid Pipeline System (Field)** (15 Hours)
  - (Module ID CT63_3-17)

- **Locally Operate Valves on a Liquid Pipeline System** (5 Hours)
  - (Module ID CT63_4-17)

- **Start-up of a Liquid Pipeline (Control Center)** (5 Hours)
  - (Module ID CT64_1-17)

- **Shutdown of a Liquid Pipeline (Control Center)** (5 Hours)
  - (Module ID CT64_2-17)

- **Monitor Pressures, Flows, Communications, and Line Integrity and Maintain Them Within Allowable Limits on a Liquid Pipeline System (Control Center)** (5 Hours)
  - (Module ID CT64_3-17)

- **Remotely Operate Valves on a Liquid Pipeline System** (5 Hours)
  - (Module ID CT64_4-17)
Pipeline Operations (Control Center/Gas/Liquid) (continued)

**Start-up of a Gas Pipeline** *(5 Hours)*
(Module ID CT65_1-17)

**Shutdown of a Gas Pipeline** *(5 Hours)*
(Module ID CT65_2-17)

**Monitor Pressures, Flows, Communications and Line Integrity and Maintain Them Within Allowable Limits (Gas)** *(5 Hours)*
(Module ID CT65_3-17)

**Manually or Remotely Open or Close Valves or Other Equipment** *(5 Hours)*
ISBN 978-0-13-472825-4
(Module ID CT65_4-17)